

COPPER ROOFING IS NOW URGED BY RYAN

John D. Ryan, chairman of the board of Anaconda Copper, took occasion to address the Anaconda "family of about 40,000 members," when sending out the dividend check early this month.

He says, among other things: "If 10 per cent of the areas covered by composition roofings erected last year in America could have been supplied with copper, there would have been an increased use of nearly as much copper as the Anaconda mines could produce in a normal year."

According to present plans, a number of roofs will be covered with copper shingle in Duluth this season. —Shillings Mining Review.



U. S. REPRESENTATIVE SIMEON D. FESS, OHIO, CHAIRMAN RE-PUBLICAN CONGRESSIONAL COMMITTEE.

of the womanhood of the country. This great piece of humanitarian legislation is the first of an ambitious program of progressive legislation espoused by women in their new sphere of political activity.

The Republican Congress enacted a new taxation measure. This new measure reduces during the current year the public tax bill in the sum of \$318,000,000. It increases the exemptions allowed the man of moderate income; it repeals the "nuisance" taxes; all of the transportation taxes, which were a heavy burden upon agricultural and industrial shippers; it repealed the excess profits tax and reduced and revised the surtax.

In this connection it is interesting to set down the actual reduction of public expenditures which have taken place since the Republican Party came into control of the United States Congress. The operating cost of the United States Government in the year 1919 was \$19,000,000,000. That year the Republican Congress began to function. It used a blue pencil upon the appropriations asked by the Democratic administration chiefs. The operating costs of the Government in 1920 were only \$17,500,000,000. The Republican Congress continued to economize, and the cost of running the Government in 1921 was reduced to \$6,500,000,000. Much of this was the residue of the Democratic administration. By close co-operation between the executive departments and the Congress in 1921, the expenditures of the Government for the current year are to be not in excess of \$4,000,000,000, and economies which have been put into effect give promise of cutting this to \$3,500,000,000. In connection with this, Congress has enacted the foreign-debt funding law, which authorizes a commission to take immediate steps to place our loans to foreign countries in a collectible shape, so that we may begin to receive the interest and principal due us and thereby still further reduce our domestic taxation.

In summing up, it may be stated that the Republican Party in March, 1921, found the nation with her relations with many foreign countries strained to almost the breaking point, her fundamental principles under discussion, her population surfeited with the profits of war and wild extravagance, her industries inflated by over-expansion from war demands, and problems of reconstruction complicated and imminent.

Today sees peace again established with all countries, foreign relations resumed with honor to ourselves and complete justice to others, the finest attitude of the world toward our moral leadership as evinced in the arms conference, a policy of proper regard for the defenders of the nation's rights, an economic administration upon the soundest principles of economy, a reduction of our public funded debt to the amount of \$2,000,000,000, and a reduction of our floating debt of \$700,000,000, a reduced taxation of over three-quarters of a billion dollars per year, a rejuvenated agriculture and industrial fabric sorely distressed by the havoc of war, the prospect of general employment of American labor in American industries, the only country which not only is balancing its budget, but has really reduced the war debt, has restored its credit, and displays signs of promise on all hands of a resumption again of our happy and promising stage which preceded the inauguration of the Democratic foibles of the new freedom and policies of suspicion and persecution of success. Such is the achievement of the first year of the Republican administration in control of both the executive and legislative branches of our Government.

But it should be noted that all of this splendid program has been carried out in the face of the persistent opposition of the solid Democratic Party, which has attempted to defeat every effort to rehabilitate the nation, and which has opposed every measure proposed, not because it had anything to offer in substitution, but because it is habitually the party of opposition, complaint and petty criticism.

The Republican Party gladly goes to the country upon its record of constructive work, confident that the memory of eight years of Democratic misrule is too vivid in the mind of the public to leave any doubt as to the decision of the American people as to which party should have control of the Congress during the critical period of nation-wide and world-wide reconstruction.

NOTICE TO TENNIS PLAYERS.

There will be a meeting of the Tonopah Tennis club on Wednesday, May 3, 1922, at R. Fred Brown's office. All persons interested are asked to attend, at 7:30 p. m. —C. E. WALDNER.

TURKISH PRINCES ARE LACKING EDUCATION

(By Associated Press)

CONSTANTINOPLE, April 4.—(By Mail.)—Turkish princes have been found lacking in educational qualifications by the council for the affairs of the imperial family, which has decided to establish a secondary school exclusively for the use of young sons of royalty.

An investigation by the council disclosed that since 1908 only three imperial princes have been well educated in military matters, and they are graduates of German institutions. One of them now holds the rank of major, while the other two are captains. Omar Farouk Effendi, son of the heir-apparent, is a graduate of the Vienna Theresianum.

Fifteen other princes are said to have little, if any, military education, and but limited schooling in general subjects. Essad Pasha, ex-minister of marine, has been instructed to draw up plans for their education and select a site for the royal school.

CHINA TEXTILE INDUSTRY NOW IS PROSPEROUS

University of Nanking Plans to Broaden Scope Improving Quality of Cotton.

(By Associated Press)

NANKING, March 25.—(By Mail.)—In line with the growth of textile industries in China and the increasing number of busy spindles in mills of the country, the University of Nanking plans this year to continue and to broaden the scope of its work to improve the quality of cotton produced by Chinese growers. This effort is receiving the liberal support of cotton mill interests of the larger centers, particularly Shanghai.

The university plans to carry out two general purposes, first to obtain for Chinese growers an acclimatized and improved seed supply, and second, to introduce its use among growers. Authorities have stated that in other countries the production of acclimatized cotton seed has required from three to five years. With a view to hastening this stage, what is perhaps the most elaborate and detailed piece of acclimatization work ever attempted in the history of cotton growing is being carried out at Nanking.

The work was begun last year when the seed fields not only were severely rugged to discard all plants not true to type, but thousands of individual plants of the Trice and Acacia varieties were selected and picked separately. The selected specimens of seed cotton from these plants were studied with exhaustive detail in the laboratory where all but a total of about 800 were discarded. These have been grown in separate rows and picked separately for further study in field and laboratory, with a further discarding of the poorest and retaining of the best.

As a result of the first year's work it was possible to announce this spring that this acclimatization method can be successfully applied in China. About a third of the selected specimens are above the standard of the average American cotton. It is said, and a tenth are much superior to the product with which the work was started.

WALDORF BUFFET.

The opening of the Waldorf Buffet, opposite the Butler theater, as a soft drink parlor, will be conducted under the proprietorship of Corak and Drysdale. Mixed drinks of every variety, combined with unexcelled service, will be the main feature. Punches of fruit juices for parties or dances, to please the most fastidious, will be given the most careful attention. We respectfully solicit your patronage. Corak & Drysdale. A28-tf

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ASSESSMENT NOTICE.

Tonopah-Midway Consolidated Mining Company.

Location of principal place of business and property, Tonopah, Nye county, Nevada. Notice is hereby given that at a meeting of the board of directors, held on the 1st day of May, 1922, an assessment (No. 10) of two (2) cents per share was levied upon the outstanding common capital stock of the corporation, payable immediately in United States gold coin, to the secretary-treasurer, at the office of the company, Tonopah, Nevada.

Any stock upon which this assessment shall remain unpaid on the 3rd day of June, 1922, will be delinquent and advertised for sale at public auction, and unless payment is made before July 10th, 1922, will be sold at the office of the company in Tonopah, Nevada, to pay the assessment, together with the cost of advertising and expenses of sale.

By order of the board of directors, E. J. ERICKSON, Secretary. P. O. Box 11, Tonopah, Nevada.

INFORMATION IS NOW AVAILABLE FOR RADIO BUGS

Local Scientist Explains Just What Hertzian Waves Really Are, How They Work.

By LETSON BALLIET
Economic Engineer.

PART III.

Having explained something of our yet limited knowledge of other waves in the preceding paragraphs, we are now down to the question of "tuning in" for the vibrations we want, and "tuning out" the discords we do not want to receive.

If you will stretch a wire across the room, running one end through a screw-eye and attaching a heavy weight to the end, thus drawing it taught, you may try an interesting experiment on tuning.

Go to a piano in the same room, strike the keys one after another until you find one that will make the wire vibrate. Of all the keys on the piano, only one will make that wire vibrate. If you listen carefully you will find that the wire gives off the same note that is given off by the piano string.

Now add more weight to the wire, increasing its tension, and you will find that the wire will not vibrate when the same note is struck, but that it will again vibrate in unison with another string of the piano, higher up the scale. If the weight is reduced a note lower down the scale will set up the vibrations in the wire. If you have a turnbuckle or set screw in your wire line, you can very likely tune that wire through every note of several octaves of your piano scale. The piano tuner can tune your piano into any pitch you desire. When one string on your piano becomes "out of tune" it has become just a little less tight, and sends out the wrong number of vibrations per second, when struck.

Thus in your experiment you have a wireless transmission of a sound wave from the piano to the wire. If you move two pianos into the same room, and tune them with each of the strings in exact unison with the string of the other, face them together with the fronts of the pianos removed, and listen carefully, you will find that the piano without a player will give off the same music that is being played on the other. Thus, you can have a miniature example of a wireless concert, demonstrated with air waves, instead of other waves.

The explanation is simple. When the piano key is struck, the piano string sends out sound waves in the air, radiating in all directions from the string. If the note is high pitched, there are a large number of vibrations per second, and if the note is a deep base note, there are fewer sound waves per second. As explained in the preceding paragraphs, the high pitched note may have 800 vibrations per second, and the low base note may have but 200 vibrations per second. It is known that sound travels in air waves at the rate of 1200 feet per second, therefore, if there are 800 vibrations in 1200 feet of air, the wave length would be one and one-half feet, while with the base note the wave length would be six feet.

With this in mind "tuning in" for wave length becomes easily understood. Naturally all other wave lengths are "tuned out." It is obvious that a wire stretched between the two pianos would not detect a single vibration, unless it was tuned to the pitch of some one note, in which event that one note could be heard several blocks away on a telephone connected with the wire, with every other note excluded. Another wire turned for another note, connected with another telephone would hear only the note it was tuned to catch. If however, there was an orchestra playing in the room, every note of that same pitch would have the same number of vibrations a second, and would be heard in a jumble of discord, while all other notes would be excluded.

The foregoing illustrates very clearly the principles on which the wireless or radio works, though there is some important difference between sound waves and wireless waves. Sound waves are motions of the air created by vibrations of different things. Wireless waves are vibrations of the "ether" that fills all space, and are created by the vibrations of electric currents. The sound waves in the air make the sensitive eardrum vibrate, and can be "heard." Wireless waves are not vibrations of the air, and cannot be heard until some device has been installed to change the other waves to air waves, and thus we actually hear electricity by transforming its vibrations of the ether drum.

The most commonly used instrument is the telephone. You can talk over the phone, and send the vibrations of your voice for many miles over a wire. A singer in New York can be heard in an auditorium in San Francisco, with the aid of a loud speaking apparatus and a horn, but line men out along the wire can hear nothing. There are no sound waves, except at the sending and receiving ends. The electric waves between are not sound waves, whether on a wire or in the ether, but any number of receiving sets or listening in sets can be set up in which event the singer can be heard at any place along the line.

It will seem something like mystery to call attention to the fact that you can chop the ice from ice covered electric wires and by connecting a furnace resistance to the wires obtain enough heat to melt platinum, steel or any known metal. You can connect a telephone to the silent wires of a telephone circuit and hear a concert miles away. You can take a brilliant light from black wires in the darkest place, and yet the heat waves in the furnace come through the cold, the sound waves come through noiselessly, and the light waves come through the work. They make heat where you want it, light where you want it, and sound where you want it. Neither heat, light nor sound waves exert any of their properties until they are resisted or interrupted. Hence the space between here and the sun is absolutely dark, silent and cold, though literally filled with uninterrupted light, sound and heat waves.

All we have to do is to stop them, transform them into whatever form we wish to use them, and after using them, to let them go on either in their original condition or in the transformed condition. Sending, receiving, transforming and amplifying apparatus are today manufactured by a large number of firms and under many patents. New patents for extended utilities of the principle, and improvements are being taken out daily, but with the foregoing explanation of the elementary principles, you will be prepared to better understand the operations of the apparatus as described in catalogues of firms manufacturing or selling them.

(Appendix to follow.)

ANNUAL STATEMENT

OF THE TONOPAH SEWER AND DRAINAGE COMPANY FOR THE YEAR 1921, ending December 31, 1921.

Total receipts for 1921, \$22,751.37
Total disbursements for 1921, \$22,079.36
Deficit for 1921, \$672.01

R. W. PIERCE, Secretary.

HARRY C. STIMLER & CO. BROKERS

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OFFICE: MIZPAH HOTEL, TONOPAH, NEVADA

APPLICATION NO. 6030.

Notice of Application for Permission to Appropriation the Public Waters of the State of Nevada.

Notice is hereby given that on the 27th day of February, 1922, in accordance with Section 53, Chapter 59, of the Statutes of 1919, and Section 100, of the Statutes of 1920, and the State of Nevada, made application to the State Engineer of Nevada for permission to appropriate the public water of the State of Nevada, such appropriation is to be made from Amargosa River, underground flow including its tributaries, Gold Creek and Indian Creek, at a point in the S24, of S25, Sec. 7, T. 12 S., R. 17 E., M. D. B. & M., by means of pipe, and reservoir, and two cubic feet per second is to be conveyed to SANWA, Sec. 17, T. 12 S., R. 17 E., M. D. B. & M., by means of ditch, and there used for irrigation and domestic purposes, from March 15th until November 15th of each year. Water not to be returned to stream.

Date of first publication April 26, 1922.
Date of last publication, May 24, 1922.

J. G. SCRUGHAM, State Engineer.

Look to the Right for the Relief of

CATARRH OF THE BLADDER

Sole, Sufferers!

SANTAL MIDY

Each Capsule bears name of

Be careful of counterfeits

ENGLAND PLANS NEW LAND IDEA OF OWNERSHIP

Ministry of Lands Would be Established Whereby Tenant Might Possess Home.

(By Associated Press)

LONDON, April 14.—(By Mail.)—A bill to abolish private property in land and to transfer all lands in Great Britain which is not already the property of the crown or of any public authority to a newly created ministry of lands has been introduced into the house of commons.

In the case of agricultural land, while all the buildings (except laborers' cottages) and other permanent improvements would be transferred to the new ministry, the measure provides arrangements whereby they can become the property of the tenant and form part of the tenant right, together with all other improvements made by him.

Compensation to owners is to be paid in the form of 5 per cent national land stock (providing an annual income equal to the present net letting value of the land transferred) redeemable at par after 30 years. After the redemption of the stock one-fourth of the net revenue of the land would be applicable to national purposes and three-fourths to local purposes.

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BORN IN COCKPIT, AGED WOMAN DIES

PORTSMOUTH, April 13.—(By Mail.)—Mary Ann Carr, who was born in the cockpit of Nelson's ship "Victory" near the spot where the famous admiral fell, has just died here at the age of 85.

Her memory of the early days aboard the ship was fresh up to within a few days of her death. She once saw a sailor flogged. The picture of the man suffering remained etched in her mind through her long life. Only once did she see such a sight, for on other occasions she was sent ashore to be spared the spectacle.

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